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United States Patent [19]

Chang

[11] **Patent Number:** **5,897,307**[45] **Date of Patent:** **Apr. 27, 1999**[54] **DISPOSABLE LIGHTER HAVING A SAFETY FUNCTION OF PREVENTING UNWANTED IGNITION**

5,788,474 8/1998 Chung et al. 431/277

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Attorney, Agent, or Firm—David and Raymond; Raymond Y. Chan*[21] Appl. No.: **08/881,848****ABSTRACT**[22] Filed: **Jun. 24, 1997**

A disposable lighter having a safety function for preventing unwanted ignition, which eliminates the two driving wheels provided in conventional gas lighter and renders a radius of a striking wheel approximately equal to a curved corner formed at a top end corner of each wing portion of a wind shield so as to sidewardsly cover the striking wheel. Therefore, the disposable lighter may only be ignited by the user's thumb on purpose that can prevent the striking wheel from being rubbed with any object to accidentally ignite. Moreover, an underage kid is also unable to ignite the disposable lighter without any adult supervision by preventing the striking wheel be stuck by a minor's thumb.

[51] **Int. Cl.⁶** **F23D 11/36**
[52] **U.S. Cl.** **431/153; 431/273; 431/277**
[58] **Field of Search** **431/277, 153, 431/274, 276, 255, 271**[56] **References Cited****12 Claims, 6 Drawing Sheets****U.S. PATENT DOCUMENTS**

5,096,414 3/1992 Zellweger 431/277
5,364,261 11/1994 Huang 431/277
5,597,299 1/1997 Jon 431/277
5,676,537 10/1997 Fang 431/277

